

freedom from breakdown. When dealing with vacua of 26 in. and lower, however, and when very large quantities of air have to be dealt with, the rotary air-pump is not as suitable or reliable as the reciprocating types previously described.

The Rees-Roturbo Manufacturing Co., Ltd. also build a rotary air-pump.

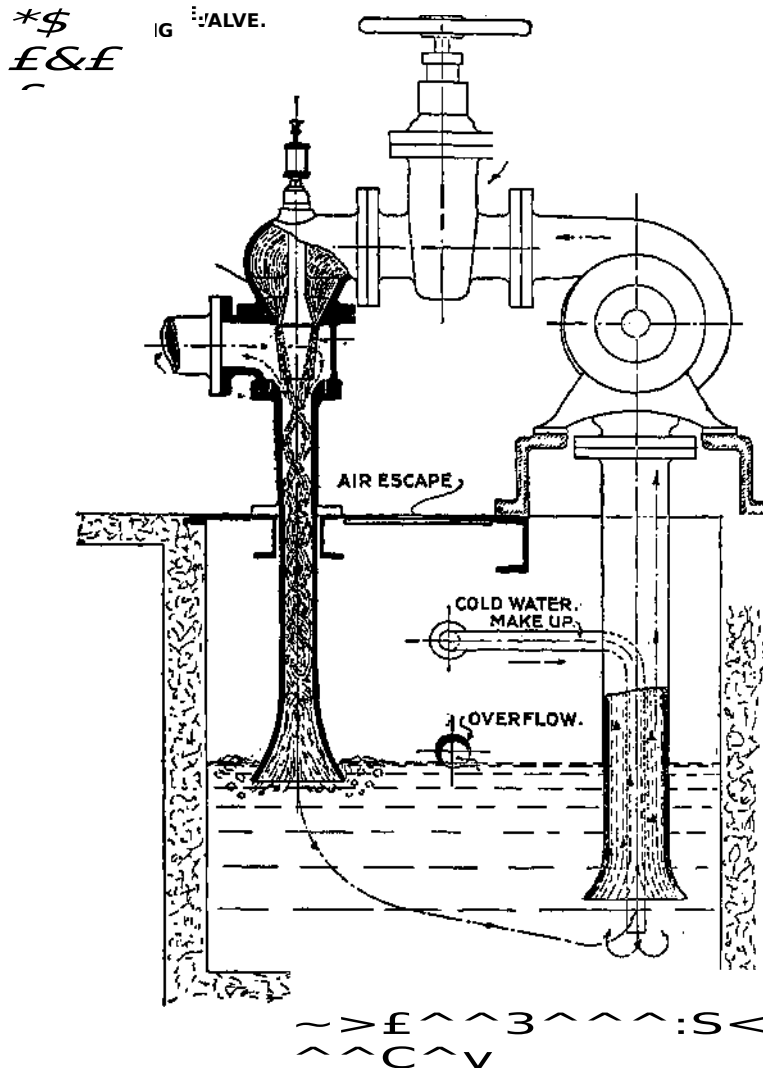


Fig. 23.—Worthington Hydraulic Air-pump

In the illustration (fig. 22) the pump is incorporated in a jet condenser, but whether used in this manner or used as a dry air-pump the action is much the same. The operating parts consist of an impeller surrounded by a set of guide blades. The central part of the impeller is a drum perforated on the circumference, and to the centre of this drum the water is supplied. The rotation of the water creates a pressure and consequently the water issues as jets from the circumferential

perforations or nozzles.